

DEPARTMENT of ENVIRONMENTAL SERVICES  
Water Division - Watershed Management Bureau

LAKE TROPHIC DATA

MORPHOMETRIC:

Lake: HODGE POND	Lake Area (ha):	4.86
Town: JAFFREY	Maximum depth (m):	---
County: Cheshire	Mean depth (m):	---
River Basin: Merrimack	Volume (m <sup>3</sup> ):	---
Latitude: 42°47'53" N	Relative depth:	---
Longitude: 72°04'02" W	Shore configuration:	---
Elevation (ft): 1060	Areal water load (m/yr):	---
Shore length (m): ---	Flushing rate (yr <sup>-1</sup> ):	---
Watershed area (ha): ---	P retention coeff.:	---
% watershed ponded: ---	Lake type:	natural

BIOLOGICAL:

June 2000

DOM. PHYTOPLANKTON (% TOTAL)	#1		
	#2		
	#3		
PHYTOPLANKTON ABUNDANCE (units/mL)			
CHLOROPHYLL-A (µg/L)			
DOM. ZOOPLANKTON (% TOTAL)	#1		
	#2		
	#3		
ROTIFERS/LITER			
MICROCRUSTACEA/LITER			
ZOOPLANKTON ABUNDANCE (#/L)			
VASCULAR PLANT ABUNDANCE			
SECCHI DISK TRANSPARENCY (m)			
BOTTOM DISSOLVED OXYGEN (mg/L)			
BACTERIA (E. coli, #/100 ml)	#1		
	#2		
	#3		

SUMMER THERMAL STRATIFICATION:

Depth of thermocline (m):  
Hypolimnion volume (m<sup>3</sup>) :  
Anoxic volume (m<sup>3</sup>) :

**CHEMICAL:**

Lake: HODGE POND

Town: JAFFREY

	June 2000				
DEPTH (m)					
pH (units)					
A.N.C. (Alkalinity)					
NITRATE NITROGEN					
TOTAL KJELDAHL NITROGEN					
TOTAL PHOSPHORUS					
CONDUCTIVITY ( $\mu$ mhos/cm)					
APPARENT COLOR (cpu)					
MAGNESIUM					
CALCIUM					
SODIUM					
POTASSIUM					
CHLORIDE					
SULFATE					
TN : TP					
CALCITE SATURATION INDEX					

All results in mg/L unless indicated otherwise

**TROPHIC CLASSIFICATION: 2000**

D.O. S.D. PLANT CHL TOTAL CLASS

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**COMMENTS:**

1. Hodge Pond was visited and determined to be both inaccessible to sample and a wetland.
2. A 4-wheel drive road gets you to within sight of the pond, but then it is 200 yards through swamp and bog to the open water. Visually the pond looked like a flooded swamp. Fish and Game data (1951) indicated a maximum depth of six feet.
3. The pond was surrounded by private land but was not posted.